

Release notes for ENDF/B Development n-096_Cm_245
evaluation



April 26, 2017

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 2.0 and S = 2.0 for "capture"

2. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=0 at E=100.0 eV, xs[0]/xs[0]=100.0% > 0.1%

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.70%

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [nubar]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [nubar]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (3.546436e-17) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (total): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (total): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 4 (n + Cm245): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 4 (n + Cm245): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': / Component 0 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
11. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': / Component 1 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
12. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 10 (n + (Cm245_e1 -> Cm245 + gamma)): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (2.995245e-09) is too small
13. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 12 (n + (Cm245_e3 -> Cm245 + gamma)): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (1.661925e-09) is too small
14. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 13 (n + (Cm245_e4 -> Cm245 + gamma)): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (8.202180e-10) is too small
15. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 14 (n + (Cm245_e5 -> Cm245 + gamma)): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (3.304981e-09) is too small
16. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 15 (n + (Cm245_e6 -> Cm245 + gamma)): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (5.095991e-09) is too small
17. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 16 (n + (Cm245_e7 -> Cm245 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.818364e-09) is too small

18. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 17 ($n + (Cm245_e8 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (2.664832e-09) is too small

19. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 18 ($n + (Cm245_e9 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (2.366498e-09) is too small

20. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 19 ($n + (Cm245_e10 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (7.606730e-11) is too small

21. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 20 ($n + (Cm245_e11 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (7.414412e-10) is too small

22. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 21 ($n + (Cm245_e12 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.580923e-09) is too small

23. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 22 ($n + (Cm245_e13 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.472042e-09) is too small

24. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 23 ($n + (Cm245_e14 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (6.709923e-09) is too small

25. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 24 ($n + (Cm245_e15 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.976551e-09) is too small

26. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 25 ($n + (Cm245_e16 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (2.963401e-11) is too small

27. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 26 ($n + (Cm245_e17 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.088606e-09) is too small

28. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 27 ($n + (Cm245_e18 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.927759e-09) is too small

29. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 28 ($n + (Cm245_e19 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.007441e-10) is too small

30. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 29 ($n + (Cm245_e20 \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (2.395886e-10) is too small

31. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 30 ($n + (Cm245_c \rightarrow Cm245 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

32. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 31 ($Cm246 + \gamma$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

33. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 31 ($Cm246 + \gamma$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

34. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 32 (n + Cm245 [angular distribution]): / Form 'eval': (Error # 1): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

35. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 33 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

36. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 34 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

37. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 35 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

38. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 36 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

39. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 37 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

40. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 38 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

41. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 39 (n/multiplicity:'energyDependent', emissionMode:'prompt'] + n/emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

- fudge-4.0 Errors:

- Duplicate Eout in outgoing distribution

Reading ENDF file: ../n-096_Cm-245.endf (Error # 0): Bad Eout

```
WARNING: skipping duplicate e_out = 6457680.0, i1 = 157 1 100.0
WARNING: skipping duplicate e_out = 6462560.0, i1 = 157 9 5000.0
```

- Energy range of data set does not match cross section range

reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
```

- Energy range of data set does not match cross section range

reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (534190.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
```

... plus 29 more instances of this message

- Energy range of data set does not match cross section range

reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (534190.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
```

- Energy range of data set does not match cross section range

reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
```

- Energy range of data set does not match cross section range

reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
```

- Energy range of data set does not match cross section range

reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
```

8. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (547243.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
9. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (170000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
10. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
11. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (534190.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
12. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (534190.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
13. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
14. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (253840.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
15. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (300000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)
16. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

17. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

18. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

19. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

20. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

21. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

22. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (253840.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

23. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

24. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

25. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (357365.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

26. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

27. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

28. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_z / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (357365.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

29. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_aa / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

30. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_ab / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

31. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_ac / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

32. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_ad / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (547243.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

33. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_ae / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

34. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c ->Cm245 + gamma) / Product: Cm245_c / Decay
product: gamma_af / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

35. Energy range of data set does not match cross section range
reaction label 21: n + (Cm245_c -> Cm245 + gamma) / Product: Cm245_c / Decay product: gamma_ag / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (111966.0 -> 20000000.0)

36. Calculated and tabulated Q values disagree.
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5765543.462860107 eV vs -5520260. eV!

37. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

38. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

39. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

40. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

41. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

42. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

43. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

44. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
45. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
46. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
47. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
48. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
49. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
50. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
51. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
52. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

53. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

54. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

55. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

56. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

57. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

58. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

59. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

60. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

61. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

62. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
63. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
64. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
65. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
66. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
67. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
68. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
69. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)
70. Energy range of data set does not match cross section range
reaction label 22: n[multiplicity:'2'] + Cm244 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5542980.0 -> 20000000.0)

71. Calculated and tabulated Q values disagree.
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12566802.2930603 eV vs -1.23215e7 eV!
72. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)
73. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)
74. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)
75. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)
76. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)
77. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)
78. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)
79. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

80. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

81. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

82. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

83. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

84. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

85. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

86. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

87. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

88. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

89. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

90. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

91. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

92. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

93. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

94. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

95. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

96. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

97. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

98. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

99. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

100. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

101. Energy range of data set does not match cross section range
reaction label 23: n[multiplicity:'3'] + Cm243 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (12372200.0 -> 20000000.0)

102. Calculated and tabulated Q values disagree.
reaction label 24: n[multiplicity:'4'] + Cm242 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -18259745.287323 eV vs -1.80145e7 eV!

103. Energy range of data set does not match cross section range
reaction label 24: n[multiplicity:'4'] + Cm242 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (18088600.0 -> 20000000.0)

104. Energy range of data set does not match cross section range
reaction label 24: n[multiplicity:'4'] + Cm242 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (18088600.0 -> 20000000.0)

105. Energy range of data set does not match cross section range
reaction label 24: n[multiplicity:'4'] + Cm242 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (18088600.0 -> 20000000.0)

106. Energy range of data set does not match cross section range
reaction label 24: n[multiplicity:'4'] + Cm242 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (18088600.0 -> 20000000.0)

107. Calculated and tabulated Q values disagree.
reaction label 26: Cm246 + gamma (Error # 0): Q mismatch

- WARNING: Calculated and tabulated Q-values disagree: 6212303.266448975 eV vs 6457580. eV!
108. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 23: n + (Cm245_c -> Cm245 + gamma) total gamma multiplicity
(Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 21.90%
109. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 24: n[multiplicity:'2'] + Cm244 + gamma total gamma multiplicity
(Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 99.99%
110. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 25: n[multiplicity:'3'] + Cm243 + gamma total gamma multiplicity
(Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 50.15%
111. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 26: n[multiplicity:'4'] + Cm242 + gamma total gamma multiplicity
(Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 72.06%
112. Calculated and tabulated Q values disagree.
fissionComponent label 0: /reactionSuite/fissionComponents/fissionComponent[@label='0']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 229216366303.2597 eV vs 2.05218e8 eV!
113. Calculated and tabulated Q values disagree.
fissionComponent label 1: /reactionSuite/fissionComponents/fissionComponent[@label='1']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 229216366303.2597 eV vs 2.05218e8 eV!
114. Calculated and tabulated Q values disagree.
fissionComponent label 2: /reactionSuite/fissionComponents/fissionComponent[@label='2']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 229216366303.2597 eV vs 2.05218e8 eV!
115. Calculated and tabulated Q values disagree.
fissionComponent label 3: /reactionSuite/fissionComponents/fissionComponent[@label='3']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 229216366303.2597 eV vs 2.05218e8 eV!
116. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 32 (n + Cm245 [angular distribution]): / Form 'eval': / LegendreLValue L=1 vs 1 (Error # 0): Bad evs
- WARNING: 10 negative eigenvalues! Worst case = -4.370869e-05

- njoy2012 Warnings:

1. In some evaluations, the partial fission reactions MT=19, 20, 21, and 38 are given in File 3, but no corresponding distributions are given. In these cases, it is assumed that MT=18 should be used for the fission neutron distributions.
heatr...prompt kerma (0): HEATR/hinit (3)

```
---message from hinit---mt19 has no spectrum
          mt18 spectrum will be used.
```

2. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (1): HEATR/hinit (4)

```
---message from hinit---mf6, mt 16 does not give recoil za= 96244
          one-particle recoil approx. used.
```

3. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (2): HEATR/hinit (4)

```
---message from hinit---mf6, mt 17 does not give recoil za= 96243
          one-particle recoil approx. used.
```

4. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (3): HEATR/hinit (4)

```
---message from hinit---mf6, mt 37 does not give recoil za= 96242
          one-particle recoil approx. used.
```

5. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (4): HEATR/hinit (4)

```
---message from hinit---mf6, mt 51 does not give recoil za= 96245
          one-particle recoil approx. used.
```

6. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (5): HEATR/hinit (4)

```
---message from hinit---mf6, mt 52 does not give recoil za= 96245
          one-particle recoil approx. used.
```

7. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (6): HEATR/hinit (4)

```
---message from hinit---mf6, mt 53 does not give recoil za= 96245
          one-particle recoil approx. used.
```

8. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (7): HEATR/hinit (4)

```
---message from hinit---mf6, mt 54 does not give recoil za= 96245
          one-particle recoil approx. used.
```

9. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (8): HEATR/hinit (4)

```
---message from hinit---mf6, mt 55 does not give recoil za= 96245
          one-particle recoil approx. used.
```

10. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (9): HEATR/hinit (4)

```
---message from hinit---mf6, mt 56 does not give recoil za= 96245
one-particle recoil approx. used.
```

11. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (10): HEATR/hinit (4)

```
---message from hinit---mf6, mt 57 does not give recoil za= 96245
one-particle recoil approx. used.
```

12. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (11): HEATR/hinit (4)

```
---message from hinit---mf6, mt 58 does not give recoil za= 96245
one-particle recoil approx. used.
```

13. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (12): HEATR/hinit (4)

```
---message from hinit---mf6, mt 59 does not give recoil za= 96245
one-particle recoil approx. used.
```

14. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (13): HEATR/hinit (4)

```
---message from hinit---mf6, mt 60 does not give recoil za= 96245
one-particle recoil approx. used.
```

15. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (14): HEATR/hinit (4)

```
---message from hinit---mf6, mt 61 does not give recoil za= 96245
one-particle recoil approx. used.
```

16. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (15): HEATR/hinit (4)

```
---message from hinit---mf6, mt 62 does not give recoil za= 96245
one-particle recoil approx. used.
```

17. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (16): HEATR/hinit (4)

```
---message from hinit---mf6, mt 63 does not give recoil za= 96245
one-particle recoil approx. used.
```

18. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (17): HEATR/hinit (4)

```
---message from hinit---mf6, mt 64 does not give recoil za= 96245
one-particle recoil approx. used.
```

19. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (18): HEATR/hinit (4)

```
---message from hinit---mf6, mt 65 does not give recoil za= 96245
one-particle recoil approx. used.
```

20. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (19): HEATR/hinit (4)

```
---message from hinit---mf6, mt 66 does not give recoil za= 96245
one-particle recoil approx. used.
```

21. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (20): HEATR/hinit (4)

```
---message from hinit---mf6, mt 67 does not give recoil za= 96245
one-particle recoil approx. used.
```

22. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (21): HEATR/hinit (4)

```
---message from hinit---mf6, mt 68 does not give recoil za= 96245
one-particle recoil approx. used.
```

23. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (22): HEATR/hinit (4)

```
---message from hinit---mf6, mt 69 does not give recoil za= 96245
one-particle recoil approx. used.
```

24. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (23): HEATR/hinit (4)

```
---message from hinit---mf6, mt 70 does not give recoil za= 96245
one-particle recoil approx. used.
```

25. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (24): HEATR/hinit (4)

```
---message from hinit---mf6, mt 91 does not give recoil za= 96245
one-particle recoil approx. used.
```

26. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (25): HEATR/hinit (4)

```
---message from hinit---mf6, mt102 does not give recoil za= 96246
photon momentum recoil used.
```

27. There is a problem with the fission energy release.
heatr...prompt kerma (26): HEATR/nheat (3)

```
---message from nheat---changed q from 2.052180E+08 to 1.940260E+08
for mt 18
```

- **xsectplotter Errors:**

1. Duplicate Eout in outgoing distribution
(Error # 2): Bad Eout

```
WARNING: skipping duplicate e_out = 6457680.0, i1 = 157 1 100.0
WARNING: skipping duplicate e_out = 6462560.0, i1 = 157 9 5000.0
```